

## Voith Retarder

### List of Approved Oils

---

2018-05-30

153.00455712en, Protection Class 0: open

# Contact

For questions and work procedures not described in these documents, please contact the respective organization for your area.

Voith Turbo GmbH & Co. KG  
VT Mobility Service  
Voithstraße 1  
74564 Crailsheim  
Germany

Tel: + 49 7951 32 1555  
Fax: + 49 7951 32 1506  
retarder@voith.com  
www.voith.com

Copyright © by  
Voith Turbo GmbH & Co. KG

This document is protected by copyright.  
It must not be translated, mechanically or  
electronically duplicated in whole or in  
part, nor passed on to third parties  
without the publisher's written approval.

# Document Revision History

Revision	Author	Date	Reason for revision / Contents of revision
1.0	CRue	2015-08-19	Revision of layout and of oil selection list
2.0	Kuen	2016-03-16	New: REPSOL 10W-40; Oil Class B
3.0	Kuen	2018-05-30	Updating of the approved oil in chapter 1.4; QR code was added

# Contents

<b>Chapter 1</b>	<b>List of Approved Oils</b>	<b>1-1</b>
<hr/>		
<b>1.1</b>	<b>Determination of application category</b>	<b>1-2</b>
<b>1.2</b>	<b>Oil change intervals for trucks</b>	<b>1-3</b>
<b>1.3</b>	<b>Oil change intervals for busses</b>	<b>1-3</b>
<b>1.4</b>	<b>List of oils</b>	<b>1-4</b>

# 1 List of Approved Oils

---

## Notice



### **The list of approved oils is permanently updated.**

With each updating of the list of approved oils, the version number changed by 1. Only the list of approved oils with the highest index is valid. All previous versions of the list of approved oils are no longer valid.

The current and binding list of approved oils can be found in the **Voith Service Information System, Retarder I VIAB I Compressor** or under:

[www.voith.com/brochures/153.004557xx](http://www.voith.com/brochures/153.004557xx)

In case that you do not have an internet access, please contact directly our Support or the respective Voith national representative.

---



1CZ\_9000

Fig. 1-1 QR code of the current list of approved oils

## 1.1 Determination of application category

Application profile	Total weight of vehicle	Application category
<ul style="list-style-type: none"> <li>• Long-distance traffic</li> <li>• Interurban passenger transport</li> <li>• Distances driven on motorways above 80 %</li> <li>• Climatic conditions as in Central Europe</li> </ul>	up to 44 t	<b>1</b>
	up to 50 t	<b>2</b>
	above 50 t	<b>3</b>
<ul style="list-style-type: none"> <li>• Regular line service, distribution transport, public transport - stop &amp; go</li> <li>• Distances driven on motorways above 50 %</li> <li>• Portion of time driven in city traffic greater than 50 %</li> </ul>	up to 44 t	<b>2</b>
	up to 50 t	<b>2</b>
	above 50 t	<b>3</b>
<ul style="list-style-type: none"> <li>• Regions with higher outside temperatures on average than in Central Europe</li> <li>• Frequent use in altitudes over 1500 m above sea level</li> <li>• Routes with a high portion of gradients</li> <li>• Vehicles at construction sites and timber trucks</li> </ul>	up to 44 t	<b>3</b>
	up to 50 t	<b>3</b>
	above 50 t	<b>3</b>

### Important information:

Only the lubricants released and listed in the attachment may be used for Voith retarder operation.

If an oil shall be used which is not listed, please contact Voith for suitability and release.

If shorter maintenance intervals are specified by the vehicle manufacturer (OEM), these are to be complied with.

Other factors which can influence a premature aging of the oil shall be regarded individually and the change intervals be shortened accordingly.

The operator has to ensure a correct oil level in the retarder between the oil change intervals.

Only the single-grade engine oils indicated in the annex may be used for Retarder type VR 115 HR.

### Note for lubricant suppliers:

Please inform Voith Turbo, Retarder Engineering, immediately in case of changes in the composition (formulation, change of oil code) or the brand name of the released product:

**RetarderOil@voith.com**

## 1.2 Oil change intervals for trucks

	Oil class		
	A	B	C
<b>Application category</b> → Page 1-2, Chapter 1.1	<b>Mileage in km, however, after 2 years at the latest</b>		
<b>1</b>	90000 <sup>1)</sup>	135000	180000 <sup>2)</sup>
<b>2</b>	65000 <sup>3)</sup>	90000	135000 <sup>4)</sup>
<b>3</b>	45000	65000	90000 <sup>5)</sup>

## 1.3 Oil change intervals for busses

	Oil class		
	A	B	C
<b>Application category</b> → Page 1-2, Chapter 1.1	<b>Mileage in km, however, after 2 years at the latest</b>		
<b>1</b>	135000	180000	240000 <sup>6)7)</sup>
<b>2</b>	90000	120000	180000 <sup>8)</sup>
<b>3</b>	65000	90000	135000

1)	VR 3250	120,000 km
2)	VR 3250	200,000 km
3)	VR 115 HR	50,000 km
4)	VR 3250	150,000 km
5)	VR 3250	100,000 km
6)	VR 115 E	300,000 km
7)	VR 3250	300,000 km
8)	VR 3250	200,000 km

## 1.4 List of oils



### Notice

(1) : For fields of application, frequently with minus temperatures ( $T < -10^{\circ} \text{C}$ ) / halving of oil change interval (oil class A)

Producer / supplier	Product designation	SAE class	Oil class
Aral AG	Turboral	10W	A <sup>(1)</sup>
Aral AG	Turboral	20W-20	A
Aral AG	Turboral	10W-40	B
Aral AG	Transmission Oil SNS-B	75W-80	C
AVIA Mineralöl-AG, Munich	Turbosynth Low SAPS	10W-40	B
AVIA Mineralöl-AG, Munich	Turbosynth CFE	10W-40	A
BASF SE	Emgard MTF 4230	75W-80	C
BASF SE	Emgard MTF 4200	75W-80	C
BP plc.	BP Vanellus Max Eco	10W-40	B
BUCHER AG LANGENTHAL	MOTOREX UNISYNT VT SAE	75W-80	C
BUCHER AG LANGENTHAL	MOTOREX NEXUS FE SAE 5W-30	5W-30	B
Castrol Ltd.	Tecton Monograde	10W	A <sup>(1)</sup>
Castrol Ltd.	Vecton Long Drain 10W-40 LS	10W-40	B
Castrol Ltd.	Enduron Low SAPS	10W-40	B
Cepsa	MAN Mega Gear	75W-80	C
Cepsa	EUROTRANS SHPD	5W-30	B
Cepsa	EUROTECH LS 10W40 PLUS	10W-40	B
Chevron Lubricants	Ursa Premium FE	5W-30	B
Chevron Lubricants	Delo 400 XLE Synthetic	5W-30	B
Chevron Lubricants	Delo 400 XLE HD SAE 10W-40	10W-40	B
Chevron Lubricants	Delo 400 LE Synthetic	5W-30	B
Chevron Lubricants	Delo 400 LE Synthetic	5W-40	A
Chevron Products Company	Ursa Synthetic MTF HD SAE 75W-80	75W-80	C
Chevron Products Company	Multigear MTF HD	75W-80	C
Chevron Products Company	Delo Syn-Trans XV SAE 75W-80	75W-80	C
Chevron Products Company	Delo Syn-AMT XV SAE 75W-80	75W-80	C
Engen Petroleum Ltd	Engen Gearlube SPL VR	75W-80	C
Eurol bv	Eurol HPX VC	75W-80	C
ExxonMobil	Mobiltrans SHC V 30	75W-80	C
ExxonMobil	Mobil Delvac XHP Ultra LE	5W-30	B



<b>Producer / supplier</b>	<b>Product designation</b>	<b>SAE class</b>	<b>Oil class</b>
ExxonMobil	Mobil Delvac XHP Ultra	5W-30	B
ExxonMobil	Mobil Delvac XHP LE	10W-40	A
ExxonMobil	Mobil Delvac XHP Extra	10W-40	A
ExxonMobil	Mobil Delvac XHP ESP	10W-40	B
ExxonMobil	Mobil Delvac 1 Transmission Fluid V30	75W-80	C
ExxonMobil	Mobil Delvac 1 LE	5W-30	B
ExxonMobil	Mobil Delvac 1	5W-40	B
Fuchs Petrolub SE	Titan Universal HD	20W-20	A
Fuchs Petrolub SE	Titan Unimax Ultra MC	10W-40	A
Fuchs Petrolub SE	Titan Unimax Plus MC	10W-40	A
Fuchs Petrolub SE	Titan Cargo SL	5W-30	B
Fuchs Petrolub SE	Titan Cargo Pro Gas	5W-30	B
Hermann Bantleon GmbH	AVILUB VR	20W-20	A
Jiangsu Lopal Tech Co., Ltd.	LOPAL	10W-40	B
Kuwait Petroleum	Q8 Super Gear M	75W-80	C
Kuwait Petroleum	Q8 Super Gear V	75W-80	C
LUKOIL Lubricants Europe Oy	LUKOIL TRANSMISSION SYNTH MPX	75W-80	C
Mabanol GmbH & Co. KG	Mabanol Argon Truck Blue	10W-40	B
Mercedes-Benz Australia / Pacific Pty	Alliance AFM E9/E7/E6	10W-40	B
MOL-LUB Kft	MOL Dynamic Mistral	5W-30	B
Motul	TEKMA ULTIMA + 10W-40	10W-40	B
Motul	TEKMA OPTIMA	5W-30	B
Motul	Motul Gear Synth FE	75W-80	C
Oil-Brack AG	Midland VR-gear	75W-80	C
PANOLIN AG	PANOLIN ECOMOT	5W-30	B
PETROGAL S.A.	GALP GALAXIA ULTRA PLENUS	10W-40	B
PETROGAL S.A.	GALP GALAXIA EXTREME SUPRA	5W-30	B
PETROGAL S.A.	GALP GALAXIA EXTREME	5W-30	B
Petronas Lubricants International	URANIA FE LS	5W-30	B
Renault Truck Oils	Longevia BZV Eco	75W-80	B
Renault Truck Oils	Longevia BXI Eco	75W-80	C
Renault Truck Oils	Extensia FP	10W-40	B
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.	REPSOL DIESEL TURBO VHPD MID SAPS	5W-30	B
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.	REPSOL DIESEL TURBO UHPD MID SAPS	10W-40	B

Producer / supplier	Product designation	SAE class	Oil class
Shell	Rimula R6 ME	5W-30	B
Shell	Rimula R6 M	10W-40	B
Shell	Rimula R5 LE	10W-30	B
Shell	Rimula R3	10W	A <sup>(1)</sup>
Shell	Rimula R2 Multi	10W-30	A
Shell	Rimula R2	10W	A <sup>(1)</sup>
Smeermiddelen Industrie de Oliebron BV	Tor Turbosynth LSP Plus	10W-40	B
SRS Schmierstoff Vertrieb GmbH	SRS Getriebefluid MTS	75W-80	C
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TLS plus	5W-30	B
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TLA	10W-40	B
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TFX	10W-40	A
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TFF	10W-40	A
SRS Schmierstoff Vertrieb GmbH	SRS Cargolub TFE	10W-40	A
Svenska Statoil AB	Statoil GearWay S4 V	75W-80	C
Tamoil Italia S.p.A.	Tamoil Diesel Ultra FE	10W-40	B
Tamoil Italia S.p.A.	Tamoil Diesel Top Performance FE	5W-30	B
TOTAL - Total Lubrifiants S.A.	TRANSMISSION GEAR 9V FE (Transmission XSV FE)	75W-80	C
TOTAL - Total Lubrifiants S.A.	TRANSMISSION GEAR 9 FE (Transmission XS FE)	75W-80	B
TOTAL - Total Lubrifiants S.A.	Rubia TIR 8900 FE	10W-30	B
TOTAL - Total Lubrifiants S.A.	Rubia TIR 8900	10W-40	B
TOTAL - Total Lubrifiants S.A.	Rubia TIR 8600	10W-40	A
TOTAL - Total Lubrifiants S.A.	Quartz Ineo MC3	5W-30	B
TOTAL - Total Lubrifiants S.A.	Quartz Future 9000	5W-30	B
TOTAL - Total Lubrifiants S.A.	Quartz 9000	5W-40	A
TOTAL - Total Lubrifiants S.A.	Elf Performance Expert LSX	10W-40	B
TOTAL - Total Lubrifiants S.A.	Elf Performance Expert	10W-40	A
TOTAL - Total Lubrifiants S.A.	Elf Evolution Full-Tech LLX	5W-30	B
TOTAL - Total Lubrifiants S.A.	Elf Evolution 900 SXR	5W-30	B
Valvoline EMEA	Valvoline Heavy Duty Gear Oil pro	75W-80	C
Valvoline EMEA	SynGard IS	75W-80	C
Voith Turbo S.r.l.	VR Fluid S	10W-40	B
Voith Turbo S.r.l.	VR Fluid RED S	75W-80	C
Voith Turbo S.r.l.	VR Fluid BLU S5	75W-80	C
Voith Turbo S.r.l.	VR Fluid	20W-20	A

<b>Producer / supplier</b>	<b>Product designation</b>	<b>SAE class</b>	<b>Oil class</b>
Volvo	Volvo Semi Synthetic Diesel Engine Oil VDS-3 p/n 85102467/-8/-9	10W-40	B
YORK SAS	York 1147 SAE 5W30	5W-30	B
YORK SAS	York 1147 SAE 10W40	10W-40	B

Voith Turbo GmbH & Co. KG  
VT Mobility Service  
Voithstraße 1  
74564 Crailsheim  
Germany

Tel: + 49 7951 32 1555  
Fax: + 49 7951 32 1506  
[retarder@voith.com](mailto:retarder@voith.com)  
[www.voith.com](http://www.voith.com)

**VOITH**  
Engineered Reliability